
INSTALLATION GUIDE

System Console Software 2.1

for Solaris™ Operating Environment

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Chapter 1 Program Components

The unit of the program in which the system is composed is called the package. The following packages compose this software.

No.	Component	Package name	Version	Function
1	Console Information	FJSVscs	2. 1	The version information of each components of the System Console Software.
2	Machine Administration	FJSVcs1	2.1	The system control management or the system status patrol of the PRIMEPOWER800/1000/2000 or GP7000F Model 1000/2000.
		FJSVkcsl	2.1	
		FJSVccsl	2.1	
		FJSVmadm	1.0	
		FJSVmand	2.1.1	
		FJSVmasv	2.1	
		FJSVmaom	1.6	
3	Online Manual	FJSVcsлом	2.1	Online manual of the System Console Software. (HTML format)
4	Automatic Power Control	FJSVapcs	1.3.9	Automatic power control of the PRIMEPOWER 800/1000/2000 or GP7000F Model 1000/2000.
5	Partition Installer	FJSVclis	3.0	Supplementary tool to install OS and product in the partition of PRIMEPOWER 800/1000/2000 or GP7000F Model 1000/2000.
6	RC2000	FJSVrcon	1.2.4	Control of the remote console screen for each partition of the PRIMEPOWER800/1000/2000 or GP7000F Model 1000/2000.
7	Dump Control	FJSVdmp	1.4	Retention and management of dumps for each partition of the PRIMEPOWER800/1000/2000 or GP7000F Model 1000/2000.
8	System Data Output tool	FJSVsnap	2.3	Collects data in the SMC, of command execution results plus hardware and software configuration, environment settings, logs, and operation status, then outputs that system information for system fault analysis to a backup tape device.
9	SMC Assistance	FJSVscsl	1.5	Supplementary tool of the SMC.
10	SCF driver (SMC exclusive use)	FJSVscd	1.8	RAS control device driver. (SCF,FaultLED) (64 bits) (*1)
		FJSVscdx	1.8	RAS control device driver. (SCF,FaultLED) (*1)
		FJSVscr	1.9	RAS control daemon and configuration file. (*1)
		FJSVscu	1.9	RAS control command. (*1)
		FJSVlscd	1.0	RAS control device driver. (SCF,FaultLED) (64 bits) (*2)
		FJSVlscdx	1.0	RAS control device driver. (SCF,FaultLED) (*2)
		FJSVlscr	1.1	RAS control daemon and configuration file. (*2)
		FJSVlscu	1.1	RAS control command. (*2)

No.	Component	Package name	Version	Function
11	Web-Based Admin View/ WWW Server for Admin View	FJSVwvbs	2.1.1	WWW server for Web-Based Admin View.
		FJSVwvcnf	2.0.3	Web Communication base for Web application.
		FJSVwvd1	4.1.0	Download tool for Web-Based Admin View
12	SMC Default Configuration	FJSVdef	For Solaris™ 7/8 OE	For Solaris™ 9 OE
			1.2.4	1.3
13	Validation Test System		For Solaris™ 7/8 OE	For Solaris™ 9 OE
		FJSVvts	4.0	4.5
		SUNWvts	4.0	4.5
		SUNWvtsmn	4.0	4.5
		SUNWvtsx	4.0	4.5
				Online diagnosis test of SMC.
14	REMCS Agent	FJSVsmcrm	3.4	Reports to the REMCS center the unit status and error information related to PRIMEPOWER 800/1000/2000 and GP7000F models 1000/2000.
		FJSVsc1rm	1.0	
		FJSVsc2rm	1.2	
		FJSVsirms	2.2	Collects software information.
		FJSVrlib	4.2	Auxiliary function that reports information to the REMCS center
		FJSVRmaos	2.6	
		FJSVRagt	2.6	
		FJSVrrda	2.6	
		FJSVmarm	1.6.1	Reports to the REMCS center the unit status and error information related to PRIMEPOWER SMC.
15	Java version RC2000	FJSVRcon2	3.0.0	RC2000 function is offered with Java. *3
		FJSVRcond	3.0.0	The download function of RC2000 package from WeView is offered. *3
		FJSVRcone	3.0.0	Online manual of the RC2000 User's Guide. (HTML format) *3
		FJSVRconnm	3.0.0	

*1: GP7000F Model 200 or PRIMEPOWER200 only

*2: PRIMEPOWER 100 SMC only

*3: Only when "javarc" option is specified, it is installed. Please refer to "RC2000 User's Guide" for the function of Java version RC2000.

Chapter 2 Applicable Manuals

2.1 Online Manuals

The following manuals, which are in HTML format, are stored on the CD-ROM provided with the packages.

No.	Manual title	Format
1	System Console Software User's Guide	HTML, pdf
2	REMCS Agent Operator's Guide	HTML, pdf
3	System Console Software Release Notes	pdf
4	SMC REMCS Agent Release Notes	pdf

No.	Manual title	Format
5	Dynamic Reconfiguration Architecture Guide	pdf
6	System Management Console Security Development Guide	pdf
7	Enhanced Support Facility User's Guide	pdf
8	Machine Administration Guide	pdf
9	FJVTS Test Reference Manual	pdf
10	SunVTS 2.1 Quick Reference Card	pdf
11	Web-Based Admin View Operation Guide V20	pdf
12	INSTALLATION GUIDE System Console Software	pdf
13	RC2000 User's Guide	HTML, pdf

2.1.1 Referring to the online manuals (HTML format)

It is possible to refer to the manual by installing SCS on SMC. After the login procedure on SMC, please select the icon of "User's Guide" from the tool menu window on the screen.

The following manuals selection windows are displayed.

- System Console Software User's Guide
- REMCS Agent Operator's Guide
- RC2000 User's Guide (It is possible to refer only when installing it by "javarc" option specification.)

2.1.2 Referring to the online manuals (pdf format)

It is possible to refer to an online manual of the pdf form by using Acrobat Reader. Please refer to the following manuals for the method of installing Acrobat Reader.

- GP7000F System Management Console (SMC) User's Manual
- PRIMEPOWER System Management Console (SMC) User's Manual
- PRIMEPOWER100 User's Manual System Management Console model
- PRIMEPOWER2000/1000/800 Installation Guide

The reference method is as follows.

1. Insert the CD-ROM into the CD-ROM drive on the server.
2. If the CD-ROM has not been mounted, mount it.

```
# /etc/init.d/volmgt start <Return>
```

1. Enter the command below to start Acrobat Reader.

```
# /opt/Acrobat4/bin/acrорeад & <Return>
```

2. Open the following file.

```
/mount_point/doc/english/<File_name>
```

<File_name> is as follows..

Manual	File_name
System Console Software Release Notes	ReleaseNote.pdf
SMC REMCS Agent Release Notes	SMC_REMCS_RN.pdf
Dynamic Reconfiguration Architecture Guide	DR_arch_guide.pdf
System Management Console Security Development Guide	SMC_secure.pdf
Enhanced Support Facility User's Guide	esfug.pdf
Machine Administration Guide	madm.pdf
FJVTS Test Reference Manual	fjvts.pdf
SunVTS 2.1 Quick Reference Card	sunvts.pdf
System Console Software User's Guide	scsug.pdf
REMCS Agent Operator's Guide	REMCS_ог.pdf

Web-Based Admin View Operation Guide V20	webview_ome.pdf
INSTALLATION GUIDE System Console Software	install.pdf
RC2000 User's Guide	rc2000ug.pdf

Chapter 3 Operating Environment

To use this software, the following software and hardware prerequisites must be performed.

3.1 Software Environment

1) Basic Software prerequisites

Before you can use this software, one of the following Basic Software products must have been installed on the system.

No.	Name of Basic Software		Remarks
1	Solaris™ 7 Operating Environment (OE) To use this software on PRIMEPOWER and GP7000F systems, the following packages are required.		<ul style="list-style-type: none"> For PRIMEPOWER and GP7000F, Solaris™ 7 OE 5/99 or later can be used. When PRIMEPOWER 100 SMC is used, Solaris™ 7 OE is not supported. If you select the software group that contains "Developer System Support" when you install Solaris™ 7 OE 5/99 or later, you can install Solaris™ 7 OE 5/99 or later and the required packages at the same time.
	Component	Package name	
	SCF driver	SUNWdtbas , SUNWmfrun , SUNWtltk , SUNWxwice , SUNWxwpplt , UNWxwcft , SUNWxwopt , SUNWctpls , SUNWxwfnt , SUNWxilrl , SUNWxilow , SUNWxildh	
	SunVTS,FJVTs	SUNWbtool , SUNWxwpplt , SUNWxwfnt , SUNWxwice , SUNWtltk , SUNWxilrl , SUNWxilow , SUNWxildh , SUNWxwcft , SUNWwlorte , SUNWaudio , SUNWoldst , SUNWxwopt , SUNWdtbas , SUNWmfrun , SUNWctpls , SUNWlibC , SUNWdtdmn , SUNWdtdte , SUNWtoo , SUNWdoc	
	Web-Based Admin View / WWW Server for Admin View	SUNWdtbas , SUNWmfrun , SUNWtltk , SUNWxwice , SUNWxwpplt , SUNWxwcft , SUNWxwopt , SUNWctpls , SUNWxwfnt , SUNWxilrl , SUNWxilow , SUNWxildh , SUNWxwrsl , SUNWscpu , SUNWlibC , SUNWtoo , SUNWjvjit , SUNWjvrt	
2	Solaris™ 8 Operating Environment To use this software on PRIMEPOWER and GP7000F systems, the following packages are required.		<ul style="list-style-type: none"> If you select the software group that contains "Developer Solaris Software Group" when you install the Solaris™ 8 OE, you can install the Solaris™ 8 OE and the required packages at the same time.
	Component	Package name	
	SCF driver	SUNWdtbas , SUNWmfrun , SUNWtltk , SUNWxwice , SUNWxwpplt , SUNWxwcft , SUNWxwopt , SUNWctpls , SUNWxwfnt , SUNWxilrl , SUNWxilow , SUNWxildh	
	SunVTS,FJVTs	SUNWxilow , SUNWxildh , SUNWxwcft , SUNWwlorte , SUNWaudio , SUNWoldst , SUNWxwopt , SUNWdtbas , SUNWmfrun , SUNWctpls , SUNWlibC , SUNWdtdmn , SUNWdtdte , SUNWocf , SUNWj2rt , SUNWocfr , SUNWmp , SUNWlpmmsg , SUNWpcr , SUNWpcu , SUNWppm , SUNWpsf , SUNWpsr , SUNWpsu , SUNWtoo , SUNWdoc , SUNWipc , SUNWipcx , SUNWlibCx	

No.	Name of Basic Software			Remarks					
	Web-Based Admin View / WWW Server for Admin View								
3	Solaris™ 9 Operating Environment To use this software on PRIMEPOWER and GP7000F systems, the following packages are required.			If you select the software group that contains "Developer Solaris Software Group" when you install the Solaris™ 9 OE, you can install the Solaris™ 9 OE and the required packages at the same time. Java version RC2000 is not supported in Solaris(TM) 9 OE.					
	<table border="1"> <thead> <tr> <th>Component</th> <th>Package name</th> </tr> </thead> <tbody> <tr> <td>SCF driver</td> <td>SUNWdtbas , SUNWmfrun , SUNWtltk , SUNWxwice , SUNWxwpplt , SUNWxwcft , SUNWxwopt , SUNWctpls , SUNWxfnt , SUNWxilrl , SUNWxilow , SUNWxildh , SUNWxwrtl , SUNWscpu , SUNWlibC , SUNWtoo , SUNWjvjit , SUNWjvrt</td> </tr> <tr> <td>SunVTS,FJVTS</td> <td>SUNWbtool , SUNWxwpplt , SUNWxfnt , SUNWxwice , SUNWtltk , SUNWxilrl , SUNWxilow , SUNWxildh , SUNWxwcft , SUNWolrte , SUNWlibC , SUNWcpp , SUNWzlib , SUNWtoo , SUNWdoc , SUNWipc , SUNWlibCx</td> </tr> <tr> <td>Web-Based Admin View / WWW Server for Admin View</td> <td>SUNWdtbas , SUNWmfrun , SUNWtltk , SUNWxwice , SUNWxwpplt , SUNWxwcft , SUNWxwopt , SUNWctpls , SUNWxfnt , SUNWxilrl , SUNWxilow , SUNWxildh , SUNWxwrtl , SUNWscpr , SUNWscpu , SUNWlibC , SUNWtoo , SUNWcpp , SUNWzlib , SUNWj3irt , SUNWj3rt</td> </tr> </tbody> </table>	Component	Package name	SCF driver	SUNWdtbas , SUNWmfrun , SUNWtltk , SUNWxwice , SUNWxwpplt , SUNWxwcft , SUNWxwopt , SUNWctpls , SUNWxfnt , SUNWxilrl , SUNWxilow , SUNWxildh , SUNWxwrtl , SUNWscpu , SUNWlibC , SUNWtoo , SUNWjvjit , SUNWjvrt	SunVTS,FJVTS	SUNWbtool , SUNWxwpplt , SUNWxfnt , SUNWxwice , SUNWtltk , SUNWxilrl , SUNWxilow , SUNWxildh , SUNWxwcft , SUNWolrte , SUNWlibC , SUNWcpp , SUNWzlib , SUNWtoo , SUNWdoc , SUNWipc , SUNWlibCx	Web-Based Admin View / WWW Server for Admin View	SUNWdtbas , SUNWmfrun , SUNWtltk , SUNWxwice , SUNWxwpplt , SUNWxwcft , SUNWxwopt , SUNWctpls , SUNWxfnt , SUNWxilrl , SUNWxilow , SUNWxildh , SUNWxwrtl , SUNWscpr , SUNWscpu , SUNWlibC , SUNWtoo , SUNWcpp , SUNWzlib , SUNWj3irt , SUNWj3rt
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SCF driver	SUNWdtbas , SUNWmfrun , SUNWtltk , SUNWxwice , SUNWxwpplt , SUNWxwcft , SUNWxwopt , SUNWctpls , SUNWxfnt , SUNWxilrl , SUNWxilow , SUNWxildh , SUNWxwrtl , SUNWscpu , SUNWlibC , SUNWtoo , SUNWjvjit , SUNWjvrt								
SunVTS,FJVTS	SUNWbtool , SUNWxwpplt , SUNWxfnt , SUNWxwice , SUNWtltk , SUNWxilrl , SUNWxilow , SUNWxildh , SUNWxwcft , SUNWolrte , SUNWlibC , SUNWcpp , SUNWzlib , SUNWtoo , SUNWdoc , SUNWipc , SUNWlibCx								
Web-Based Admin View / WWW Server for Admin View	SUNWdtbas , SUNWmfrun , SUNWtltk , SUNWxwice , SUNWxwpplt , SUNWxwcft , SUNWxwopt , SUNWctpls , SUNWxfnt , SUNWxilrl , SUNWxilow , SUNWxildh , SUNWxwrtl , SUNWscpr , SUNWscpu , SUNWlibC , SUNWtoo , SUNWcpp , SUNWzlib , SUNWj3irt , SUNWj3rt								

2) Software requirements

None

3) Excluded software

When this software is used, do not install the following software product.

No.	Name of software product	Package name	Version	Remarks
1	Basic Software Extension	All packages	1.0 or later	
2	Enhanced Support Facility	All packages	1.3 or later	

4) Patch requirements

The following PTF or patches are necessary when this software is used with Solaris™ 7 Operating Environment.

PTF	Solaris™ OE PTF R02021 or later
Patch	111113-02, 112590-01, 107171-10, 107834-03, 107544-03, 106541-21, 106980-19 (This patch has been stored in System Console Software CD. Please apply referring to Appendix D.)

When Java version RC2000 is used, the following PTF or patches are necessary when this software is used with Solaris™ 7 Operating Environment.

PTF	Solaris™ OE PTF R01081 or later
Patch	107226-17, 106980-16, 106541-16, 108374-05, 107636-07, 107544-03, 108376-24, 106950-13, 107081-33, 106300-09, 106327-08, 107656-07, 107702-07

When Java version RC2000 is used, the following patches are necessary when this software is used with Solaris™ 8 Operating Environment.

PTF	Solaris™ OE PTF R01082 or later
Patch	108652-33, 108921-12, 108940-24

1) Hardware Environment

The following hardware environment is required when using this software.

1) Main memory

Main memory of 128Mbytes or more.

When you use Java version RC2000, main memory of 256M bytes or more is required.

2) Hardware requirements

Please satisfy hardware requirements of SMC.

Please refer to the System Console Software Release Notes.

3.2 Static Disk Requirements

The disk space requirements for this software are shown below.

3.2.1 Disk requirements

The following tables list the disk space requirements for installing this software. If disk space is insufficient, expand the size of the appropriate file systems.

No.	Directory	Disk space requirement (in Mbytes)	Remarks
1	root	2.2	
2	/usr	0.2	
3	/var	9.7	
4	/export/home	0	
5	/opt *	311.5	

* Do not attempt to install this software in a directory other than "/opt".

The following tables list the disk space requirements for installing "Java version RC2000" (Option installation). If disk space is insufficient, expand the size of the appropriate file systems.

No.	Directory	Disk space requirement (in Mbytes)	Remarks
1	root	0.1	
2	/usr	0	
3	/var	0.1	
4	/export/home	0	
5	/opt *	4.1	

* Do not attempt to install this software in a directory other than "/opt".

3.2.2 Work area requirements

When you install this software with the following installation procedures, additional disk workspace as shown below might be required.

No.	Via spool directory	Directory	Disk space requirement (in Mbytes)	Remarks
1	No	/tmp	0.5	

3.3 Dynamic Disk Resources

The dynamic disk space requirements for this software are shown below.

3.3.1 Disk space requirements

When you use this software for the following operations, additional disk space might be required in the directories listed in "3.3 Static Disk Requirements." If disk space is insufficient, expand the size of the appropriate file systems as shown.

No.	Component	Directory	Additional disk space requirement (in M bytes)	Operation
1	FJVTS	/var	0.1	message log
2	Server Default	/var	1.0	Normal operation

No.	Component	Directory	Additional disk space requirement (in M bytes)	Operation
	Configuration			
3	RC2000	/var	0.2	Normal operation : Composition of one partition (0.2MB necessity whenever one partition is added)
4	SMC Assistance	/	0.01	Normal operation
		/var	3.82	
5	Machine Administration	/var	370	When server is one (300MB necessity whenever one server is added) (There is a possibility for about 700MB to be used when the hardware error happens frequently. : When server is one.)
6	REMCS Agent	/var	32.0	Normal operation
7	Java version RC2000 (Option installation)	/var	76.0	The usual operation constituted from one partition. (Note) When one partition increases, 37.5 K bytes of disk space is required.
		/opt	0.03	When one host is added. (Note) When a host is added, 0.03 K bytes of disk space is required.

3.4 Memory Requirements

The following table shows the memory required when you use this software for the following operations.

No.	Component	Memory required (unit: MB)	Operation
1	FJVTS	16.1	Executing the TP option with the default value, in the following situation: ● 2CPU, 1Disk(4GB), 128MB memory
		46.0	Executing the TP option with the default value, in the following situation: ● 1CPU, 2Disk(4GBx2), 128MB memory
2	RC2000	6.8	When you start one console window.
		2.5	Whenever one console window is added, it is necessary.
3	SMC Assistance	4.84	
4	Machine Administration	18.8	When server is one
5	REMCS Agent	52.0	When event is transmitted to the center.
6	Java version RC2000 (option installation).	31.2	One console window is started by environmental setup of an default setting value.
		9.1	One console window is increased by environmental setup of an default setting value.
		58.9	One console window is started when scroll buffer size was set as maximum
		36.8	One console window is increased when scroll buffer size was set as maximum.

3.5 Swap Space

The following shows the swap space requirement of this software in normal operation. The swap space requirement depends on the system situation. The total swap space can be calculating as the sum of each individual swap space requirement. If the swap space provided by the system is insufficient, it must be expanded.

No.	Component	Swap capacity (unit: Mbytes)	Description
1	SCF Driver	0.1	Normal operation (daemon, commands)
2	FJVTS	35.4	Executing the TP option with the default value, in the following situation: ● 2CPU, 1Disk(4GB), 128MB memory
		54.0	Executing the TP option with the default value, in the following situation: ● 1CPU, 2Disk(4GBx2), 128MB memory
3	Web-Based Admin View / WWW Server for Admin View	0.5	Starting the web daemon, and then accessing the management server from the client.
		19.2	Starting Java VM on the management server.
		20.6	Starting Java VM on the management server, then starting the environment setting menu on the management server from the client.
		20.4	Starting Java VM on the management server, then starting the Logging View menu on the management server from the client.
4	Machine Administration	77.5	Standard use (daemon, GUI menu)
5	Server Default Configuration	0.5	Normal operation (Solaris™ 7 OE / Solaris™ 8 OE only)
		0.7	Using the memory error inspection function. (Solaris™ 7 OE / Solaris™ 8 OE only)
6	RC2000	4.8	When you start one console window.
		3.3	Whenever one console window is added, it is necessary.
7	SMC Assistance	0.32	Standard use

No.	Component	Swap capacity (unit: Mbytes)	Description
8	REMCS Agent	5.4	Standard use
9	Java version RC2000 (option installation).	40.2	One console window is started by environmental setup of an default setting value.
		8.1	One console window is increased by environmental setup of an default setting value.
		68.9	One console window is started when scroll buffer size was set as maximum
		30.9	One console window is increased when scroll buffer size was set as maximum.

Chapter 4 Restrictions and Notes

4.1 Restrictions

None

4.2 Cautions when Upgrading

The cautions when upgrading from the previous level to this software level are described below.

4.2.1 User data compatibility

There are no user data incompatibilities between this version and the previous version of this software.

4.2.2 Environment definition file compatibility

There are no environment definition file incompatibilities between this version and the previous version of this software.

4.3 Notes

This software cannot be installed in devices other than System Management Console.

Chapter 5 Installation Procedures

5.1 Preparing for installation

5.1.1 Checking the system environment

System Console Software is installed by overwriting.

Check the available disk space for installing this software. For more detailed information of the disk space requirements, see "3.3 Static Disk Resources".

5.1.2 Installation time

It takes about 20 minutes to install this software. Note that this installation time does not include any time for rebooting, as that depends on the system configuration.

5.2 Installing System Console Software

1. Login as root. And open the "Terminal Console".
2. The SMC goes to OBP mode.

```
# /usr/sbin/shutdown -g0 -y -i0 <Return>
```

3. Boot the system in single-user mode.

```
{?} ok boot -s <Return>
```

When the following message is displayed, enter the password.

```
INIT: SINGLE USER MODE
```

```
Type Ctrl-d to proceed with normal startup,  
(or give root password for system maintenance) :password <Return>
```

4. Enter the root password and when the prompt (#) appears, execute the commands as shown below:

```
# /usr/sbin/mountall -l <Return>  
# /etc/init.d/volmgt start <Return>
```

5. Insert the System Console Software CD-ROM into the SMC.

6. Change the directory.

```
# cd /cdrom/cdrom0/tool <Return>
```

Note: See "Appendix B" to mount the CD-ROM manually when it is not possible to refer to the CD-ROM.

7. Execute the scsinstall command.

```
# ./scsinstall <Return>
```

Note1

When the option component is specified by the scsinstall command, the specified option component is installed together. Please refer to 'Appendix A Command Reference' for details. Please install it in a similar way when you install the option component in SMC which has installed System Console Software2.1. In this case, the package which has already been installed skips processing.

```
# ./scsinstall -a javarc<Return>
```

Note2

The following message may be displayed when installing package, but the installation will complete normally.

```
cron may not be running - call your system administrator
```

Note3

The following message may be displayed when installing SUNWvts or SUNWvtsx packages, but the installation will complete normally. (Solaris™ 7 OE, Solaris™ 8 OE)

```
Note: The SyMON configd package is not installed. This package is  
required in order to support the SunVTS physical configuration  
mapping mode. SunVTS will function normally in its default logical  
configuration mapping mode. However, if physical configuration  
mapping is desired, please install the correct SyMON configd package  
for your platform:  
    * For Desktop platform, install SUNWeswsa package.  
    * For WorkGroup Server platform, install SUNWeswga package.  
    * For Enterprise Server platform, install SUNWsyfcfd package.  
    :  
    :  
/var/sadm/pkg/SUNWvts/install/i.inetdconf: usage: kill [ [ -sig ] id ... | -l ]
```

Note4

The following message may be displayed when installing SUNWvts packages, but the installation will complete normally. (Solaris™ 9 OE)

```
/var/sadm/pkg/SUNWvts/install/i.inetdconf: usage: kill [ [ -sig ] id ... | -l ]
```

8. Ejects the System Console Software CD-ROM from the SMC.

```
# cd / <Return>  
# eject cdrom <Return>
```

9. Reboot the system.

```
# /usr/sbin/shutdown -g0 -y -i6 <Return>
```

5.3 Confirmation after System Console Software is installed

Please confirm the following files, and confirm whether the error occurs in the system during reboot.

```
# more /var/adm/messages <Return>
```

5.4 Environment setting after installation

5.4.1 Setting of user LAN (Administration) interface

If you want to use another interface for User (Administration) LAN interface on the partition side instead of hme0, please follow a procedure as follows.

Additionally, Please apply the following patches for the partition included in PTF R02081 before LAN setting when you use ESF 1.4.

Patch number:910562-03

Procedure:

- 1) Please execute the following commands in Solaris™ OE for the partition.

```
# /usr/sbin/FJSVmadm/addevhost hostname <Return>
```

The hostname in User (Administration) LAN interface is specified for the **hostname**.

- 2) Reboot the partition or restart the Partition-System Management Console communication daemon by the following commands.

Execute the following command to send the daemon stop instruction.

```
# /usr/sbin/FJSVmadm/cmdevsnd -s <Return>
```

Execute the following command to confirm the stop of the daemon.

```
# ps -ef | grep evsndd <Return>
```

Confirm the process of "evsndd" is not displayed.

Execute the following command to start the daemon.

[When the partition is using ESF2.0 or before]

```
# /usr/sbin/FJSVmadm/evsndd <Return>
```

[When the partition is using ESF2.1 or later]

```
# /usr/sbin/FJSVmadm/rununitinfo <Return>
```

- 3) The following message might be displayed in the System Management Console while executing this procedure.

There is no problem.

```
Feb 5 10:38:16 console0 : machine0.partition0:FJSVcsl:I:Disk:FJSVcsl:Disk configuration changed.
```

5.4.2 Setting to use Web-Based Admin View

It is necessary to set the environment by installing the following software to use Web-Based Admin View.

1. Installation of Netscape Communicator 4.7X

It is not necessary to work when Netscape Communicator 4.7X has already been installed.

Note)

- Usually, "Netscape Communicator" is not necessary to purposely be installed because it is included in the base package CD of Solaris(TM) 8 OE and it will be installed automatically with Solaris(TM) 8 OE.
- It is necessary to remove the security check of X server only when using "Netscape Communicator" by super-user. Set it as follows.

1) Login from the login screen by super-user.

2) Add the following command to the end of the ".dtprofile" file.

```
#/usr/openwin/bin/xhost +`uname -n` > /dev/null
```

2. Installation of Java 2 Runtime Environment

[Installation of Java 2 Runtime Environment 1.2.2]

- 1) Confirm that "Netscape Communicator" is installed.

```
# pkginfo -l NSCPcom <Return>
```

- 2) Confirm whether Java Plug-in has already been installed.

```
# pkginfo -l SUNWj2pi <Return>
```

Execute the above command. If the version is newer than below, it is not necessary to install. If it is older than below, delete the version, and install an recommended version.

- VERSION: 10.1.2.2,REV=1999.12.06.10.02
- VERSION: 20.1.2.2,REV=1999.10.14.18.04aaa

Execute the above command. If the version is newer than below, it is not necessary to install. If it is older than below, delete the version, and install an recommended version.

3) Prepare the package. There are two ways as follows.

- Copy the following Java Plug-in of CD-ROM to the proper directory.

```
<CDROM-mountpoint>/misc/jre/SUNWj2pi.tar.Z
```

Typically, <CDROM-mountpoint> will be: /cdrom/cdrom0

- Copy the following Java Plug-in installed to the proper directory.

```
/etc/opt/FJSVwvcnf/htdocs/FJSVwvbs/download/001JRE1.2/files/jp/solaris/SUNWj2pi.tar
```

4) Deploy the copied package.

```
# zcat SUNWj2pi.tar.Z | tar xf - <Return>
```

5) Install Java Plug-in in a super-user mode.

```
# su <Return>
password:XXXXXX <Return>
# pkgadd -d <package-deployed directory> SUNWj2pi <Return>
```

For example, when the package "SUNWj2pi" is installed on "/var/tmp," specify the following;

```
# pkgadd -d . SUNWj2pi<Return>
```

Install as required in response to the prompt confirming package installation.

When installation completes normally, exit from superuser mode by using control-d.

Note)

Usually, "Plug-in 1.2" is not necessary to purposely be installed because it is included in the base package CD of Solaris(TM) 8 OE and it will be installed automatically with Solaris(TM) 8 OE.
Refer to the above procedure for the confirmation way of whether it is installed and the installation way.

3. Setting of Java environment

It is set that Java 2 (TM) Runtime Environment 1.2.2 can be used with Java Plug-in.

Please execute the following commands, and set the environment variable of Java Plug-in in the shell variable.

[For C shell]

```
# setenv NPX_PLUGIN_PATH <Java Plug-in path> <Return>
```

[For shell and Kornshell]

```
# NPX_PLUGIN_PATH= <Java Plug-in path> <Return>
# export NPX_PLUGIN_PATH <Return>
```

<Java Plug-in path> is designated as default </opt/NSCPcom/plugins> unless otherwise specified.

Note)

- Usually, this setting is not necessary because "Plug-in 1.2" is included in the base package CD of Solaris(TM) 8 OE and it will be installed automatically to the </usr/dt/appconfig/netscape> directory by default with Solaris(TM) 8 OE.
- Java Plug-in should be installed after the Web browser. If you uninstall the Web browser after installing
- Java Plug-in, uninstall the Java Plug-in, and then reinstall it again.

5.4.3 Setting to use the Java version RC2000

It is necessary to set the environment by installing the following software to use Java version RC2000.

1. Installation of Netscape Communicator 4.7X

Please refer to "5.4.2 Setting to use Web-Based Admin View". It is not necessary to work when Netscape Communicator 4.7X has already been installed.

2. Installation of Java 2 Runtime Environment

[Installation of Java 2 Runtime Environment 1.3.1]

- 1) Copy Java(TM) 2 Runtime Environment, Standard Edition Version 1.3.1 for Solaris to the working directory from CD-ROM.

Set up CD-ROM of System Console Software on the CD-ROM device.

```
# cd <CDROM1-mountpoint>/misc/jre <Return>
```

Normally, <CDROM1-mountpoint> will be /cdrom/cdrom0.

The work directory is /var/tmp:

```
# cp <CDROM1-mountpoint>/misc/jre/j2re-1_3_1_02-solsparc.sh /var/tmp  
<Return>
```

- 2) Make sure that the execute permissions are set on the self-extracting binary.

```
# chmod +x j2re-1_3_1_02-solsparc.sh <Return>
```

- 3) Move directory to the location where the files should be installed.

```
# cd <Installed directory> <Return>
```

- 4) Run the <j2re-1_3_1_02-solsparc.sh>.

```
# ./j2re-1_3_1_02-solsparc.sh <Return>
```

Install as required in response to the prompt confirming package installation.

The directory <j2re1_3_1_02> is made for a present directory.

Note)

Please refrain from "Install directory/j2re1_3_1_02", since it is needed by subsequent setup.

3. Place the font property file used with the Java version RC2000.

```
# /etc/opt/FJSVrcon/bin/rcsetfontprop jrepath <Return>
```

In <jrepath>, specify the absolute path to the top directory of JRE1.3.1 software.

If JRE1.3.1 software was installed in /usr as described in "Installation of Java 2 Runtime Environment 1.3.1" of 2."Installation of the Java environment", specify /usr/j2re1_3_1_02.

For rcsetfontprop command, refer to "A.1 rcsetfontprop" of "RC2000 User's Guide".

4. Set up an environment for starting RC2000 from Web-Based Admin View.

```
# /etc/opt/FJSVrcon/bin/rcextsetup jreextpath <Return>
```

In <jreextpath>, specify the absolute path to the ext directory of JRE1.3.1 software.

If JRE1.3.1 software was installed in /usr as described in 2."Installation of the Java environment", specify /usr/j2re1_3_1_02/lib/ext.

For rcsetfontprop command, refer to "A.2 rcextsetup" of " RC2000 User's Guide ".

Note)

In Solaris™ 8 Operating Environment, Plug-in1.2 is included in CD of Solaris™ 8 base package, and it gets down, and is automatically installed with Solaris™ 8 OE. In this case, since the above-mentioned command will be executed at the time of Java version RC2000 package installation, it is not necessary to set up after installation.

5. Setting of Java environment

It is set that Java 2 (TM) Runtime Environment 1.3.1 can be used with Java Plug-in.

Java Plug-in is used by Web-Based Admin View.

- 1) A terminal emulator is started and set up the environment variable

Execute the following command to set the environment variable to the shell variable:

[For C shell]

```
# setenv NPX_PLUGIN_PATH <Java Plug-in path> <Return>
```

[For shell and Kornshell]

```
# NPX_PLUGIN_PATH=< Java Plug-in path > <Return>
```

```
# export NPX_PLUGIN_PATH <Return>
```

In <Java Plug-in path>, specify the absolute path to the directory containing the javaplugin.so file of JRE1.3.1 software.

If JRE1.3.1 software was installed in /usr as described in 2."Installation of the Java environment" of "5.4.3 ...", specify /usr/j2re1_3_1_02/plugin/sparc/ns4.

2) Start your Netscape browser, or restart it if it is already activated.

3) Restart your browser again. The browser needs to be restarted twice to avoid the Netscape problem.

Note:

- If the version of the installed Java Plug-in is older than that described above, install a recommended version.
- Java Plug-in should be installed after the Web browser. If you uninstall the Web browser after installing Java Plug-in, uninstall the Java Plug-in, and then reinstall it again.

5.5 Applying modifications

If PTF (Program Temporary Fix), patches, etc. are distributed, apply the latest versions of the modifications. Refer to the manual supplied with the modification for information on how to do this.

5.6 Removing System Console Software

If you take the following procedures, all of the packages provided in this software will be removed.

1. Login as root. And open the "Terminal Console".
2. The SMC goes to OBP mode.

```
# /usr/sbin/shutdown -g0 -y -i0 <Return>
```

3. Boot the system in single-user mode.

```
{?} ok boot -s <Return>
```

When the following message is displayed, enter the password.

```
INIT: SINGLE USER MODE
```

```
Type Ctrl-d to proceed with normal startup,  
(or give root password for system maintenance):password <Return>
```

4. Enter the root password and when the prompt (#) appears, execute the commands as shown below:

```
# /usr/sbin/mountall -l <Return>  
# /etc/init.d/volmgt start <Return>
```

5. Insert the System Console Software CD-ROM into the SMC.

6. Change the directory.

```
# cd /cdrom/cdrom0/tool <Return>
```

Note: See "Appendix B" to mount the CD-ROM manually when it is not possible to refer to the CD-ROM.

7. Execute the scsldel command.

```
# ./scsldel <Return>  
  
All uninstallation completed.  
#
```

8. Ejects the System Console Software CD-ROM from the SMC.

```
# cd / <Return>  
# eject cdrom <Return>
```

9. Reboot the system.

```
# /usr/sbin/shutdown -g0 -y -i6 <Return>
```

Note

Execute the following before executing the scsldel command, if the Java version RC2000 was installed.

1. Delete the font property file of Java version RC2000.

```
# /etc/opt/FJSVrcon/bin/rcsetfontprop <Return>
```

2. Delete the environment for starting Java version RC2000 from Web-Based Admin View.

```
# /etc/opt/FJSVrcon/bin/rcextsetup <Return>
```

Appendix A Command Reference

scsinstall(1M)

NAME

scsinstall - Installs System Console Software onto the system

SYNOPSIS

```
/cdrom/cdrom0/tool/scsinstall [-a Option Component_name]
```

DESCRIPTION

scsinstall installs all packages necessary for operations as System Management Console. This command is stored in the tool directory of the CD-ROM containing System Console Software. Execute this command in single-user mode as shown below:

```
# mountall -l <Return>
# /etc/init.d/volmgt start <Return>
# cd /cdrom/cdrom0/tool <Return>
# ./scsinstall <Return>
```

If any older version System Console Software / common packages have been installed on the system, this command will update them.

OPTION

The following options are available:

-a *Option Component_name*

Installes only the specified option component.

If it is omitted, all various packages necessary for the system console are installed.

Specifies the following option component name.

javarc

Java version RC2000

EXIT STATUS

The following exit values are returned:

0 Successful execution.

not 0 Fatal error.

SEE ALSO

scsldel(1M), pkgadd(1M)

NOTES

This command can be executed only with "root" authority.

Please use this command in the single-user mode.

When the package application is done, the desktop environments of root of SCS is customized in initial state as SMC.
The previous environment is saved in \$HOME/.dt_org.

scsldel(1M)

NAME

scsldel - Removes System Console Software from the system

SYNOPSIS

/cdrom/cdrom0/tool/scsldel [-a *Option Componen_name*]

DESCRIPTION

scsldel deletes all packages necessary for operation as System Management Console. This command is stored in the tool directory of the CD-ROM containing System Console Software. Execute this command in single-user mode as shown below:

```
# mountall -l <Return>
# /etc/init.d/volmgt start <Return>
# cd /cdrom/cdrom0/tool <Return>
# ./scsldel <Return>
```

OPTION

The following options are available:

-d *Option Componen_name*

Deletes only the specified option component.

If it is omitted, all various packages necessary for the system console are deleted.

Specifies the following option component name.

javarc

Java version RC2000

EXIT STATUS

The following exit values are returned:

0 Successful execution.

not 0 Fatal error.

SEE ALSO

scslinstall(1M), pkgrm(1M)

NOTES

This command can be executed only with "root" authority.

Please use this command in the single-user mode.

When the package of SCS is deleted, the desktop environments of "Root" and Administrator is as follows. The environment becomes a previous state by which the SCS package is applied. Or, it becomes the environment of spare SMC. The previous environment is saved in \$HOME/.dt_sc.

Appendix B Manual mount of CD-ROM in single-user mode

When you install the SCF in Solaris™ 9 OE if you can not refer to the CD-ROM, use the following solution.

- 1 Stop the volume manager

```
# /etc/init.d/volmgt stop <Return>
```

- 2 Create the mount directory if it is not existing.

```
# mkdir /cdrom/cdrom0 <Return>
```

- 3 Mount the CD-ROM.

```
# mount -F hsfs /dev/dsk/<CDROM_DEVICE> /cdrom/cdrom0 <Return>
```

- 4 Change the directory to the CD-ROM.

```
# cd /cdrom/cdrom0 <Return>
```

Please do the following procedures when you eject the CD-ROM.

- 1 Change the directory.

```
#cd / <Return>
```

- 2 Un-mount the CD-ROM.

```
# umount /cdrom/cdrom0 <Return>
```

- 3 Eject the CD-ROM.

Appendix C Installation of the Java version RC2000 to a client machine

Even if it installs the Java version RC2000 in SMC (system console), in order to apply on a client machine, it is necessary to install Java version RC2000 in machines other than SMC (client). RC2000 software can be installed both on Solaris™ OE and Windows.

The procedure that installs RC2000 software in a client machine is explained.

C.1 Downloading RC2000 software

Download RC2000 software according to OS of the machine to install.

The procedure that downloads RC2000 software is explained.

1. Start the Web browser on the machine where RC2000 is to be installed.
2. Designate the following URL in the Web browser:

`http://<server address>:<port>/download/index.html`

In *<server address>*, designate the IP address or host name of the SMC.

In *<port>*, designate the http port number for Web-Based Admin View as defined on the SMC. A user can check the port number by logging in to the SMC as a system administrator and executing the command shown below. The default is 8081.

```
# /etc/opt/FJSVwvbs/etc/bin/wvSetport fJwv-h
```

A download window is displayed on the Web browser.

3. Select the operating system of the machine where RC2000 is to be installed from the combo-box list in the item for [RC2000] in the download window. Click the [Download] button.
A download confirmation window is displayed on the Web browser.
4. Select the [Yes] button in the download confirmation window.
Download of RC2000 software is started.

Note)

Java™ 2 Runtime Environment, Standard Edition Version 1.3.1 software is required in order for RC2000 to operate. If not installed in the machine that installs RC2000, please download the software according to OS in the same procedure.

C.2 Installation to Solaris™ Operating Environment

C.2.1 Operating Environment

To install RC2000 software, the software and hardware requirements described below must be met.

C.2.1.1 Software Environment

1) Basic Software prerequisites

Before you can use this software, one of the following Basic Software products must have been installed on the system.

No.	Name of Basic Software	Remarks
1	Solaris™ 7 OE	Solaris™ 7 OE 5/99 or later can be used. If you select the software group that contains "Developer System Support" when you install Solaris™ 7 OE 5/99 or later, you can install Solaris™ 7 OE 5/99 or later and the required packages at the same time.

No.	Name of Basic Software	Remarks
2	Solaris™ 8 OE	If you select the software group that contains "Developer Solaris Software Group" when you install the Solaris™ 8 OE, you can install the Solaris™ 8 OE and the required packages at the same time.

2) Software requirements

The software products listed in the following table are required to use RC2000 software.

No.	Name of software product	Package name	Version and/or level	Remarks
1	Java™ 2 Runtime Environment, Standard Edition		1.3.1	
2	System Information Output Tool	FJSVsnap	2.3 or later	PRIMECLUSTERor System Console Software

A web browser and so on is required in order to start RC2000 from Web-Based Admin View of SMC. For software requirements of Web-Based Admin View, refer to "Web-Based Admin View Operation Guide".

3) Exclusive software

None.

4) Patch requirements

When using RC2000 software, all the Patches required for Java™ 2 Runtime Environment, Standard Edition 1.3.1 must be installed. Install following PTF or Patch according to basic software.

No.	Name of software product	Patch ID/PTF	Remarks
1	Solaris™ 7 OE	R01081 or later. Or all the followings: 107226-17, 106980-16, 106541-16, 108374-05, 107636-07, 107544-03, 108376-24, 106950-13, 107081-33, 106300-09, 106327-08, 107656-07, 107702-07	
2	Solaris™ 8 OE	R01082 or later. Or all the followings: 108652-33, 108921-12, 108940-24	

C.2.1.2.Hardware Environment

1) Main memory

Main memory of 256M bytes or more is required.

2) Hardware requirements

None.

C.2.1.3.Static Disk Resources

The disk space requirements for RC2000 software are shown below.

1) Disk space requirements

The following table lists the disk space requirements for installing RC2000 software. If disk space is insufficient, expand the size of the appropriate file systems.

No.	Directory	Disk space requirement (Unit: M bytes)	Remarks
1	/	0.1	
2	/usr	0	
3	/var	0.1	
4	/home	0	

No.	Directory	Disk space requirement (Unit: M bytes)	Remarks
5	/opt (*1)	0.1	

*1

This software can not install other than "/opt".

2) Work area requirements

The RC2000 software is downloaded as an archive file. To install the RC2000 software, the file must be decompressed. Decompression requires the following disk space.

No	Directory	Required disk capacity (Unit: M Byte)	Remarks
1	Directory used for decompression	0.1	

C.2.1.4. Dynamic Disk Resources

The dynamic disk space requirements for RC2000 software are shown below.

1) Disk space requirements

When you use RC2000 software for the following operations, additional disk space might be required in the directories listed in "C.2.1.3 Static Disk Resources." If disk space is insufficient, expand the size of the appropriate file systems as shown.

No.	Directory	Disk space requirement (Unit: K bytes)	Operation
1	The home directory of the user who logged in to the system	76.0	The usual operation constituted from one partition. (Note) When one partition increases, 37.5 K bytes of disk space is required.
2	/opt	0.03	When one host is added. (Note) When a host is added, 0.03 K bytes of disk space is required.

C.2.1.5. Memory Requirements

Refer to "3.5 Memory Requirements".

C.2.1.6. Swap Space

Refer to "3.6 Swap Space".

C.2.2 Restrictions and notes

None.

C.2.3 Installation method

C.2.3.1. Preparations before installation

1) Check of system environment

- Check system environment with reference to "5.1.1 Check of system environment".
- Check whether Java™ 2 Runtime Environment, Standard Edition Version 1.3.1 software is installed. When not installed, install in the following method.
 1. Log in to the installation machine as a root.
 2. Place the downloaded JRE 1.3.1 software (j2re-1_3_1_02-solsparc.sh) in the installation directory.

For example, if the installation directory is /usr, place j2re-1_3_1_02-solspark.sh in /usr.

```
# mv downloaded_directory/j2re-1_3_1_02-solspark.sh /usr <Return>
```

Specify the directory that downloaded j2re-1_3_1_02-solspark.sh as <downloaded_directory>.

- Check that downloaded JRE1.3.1 software (j2re-1_3_1_02-solspark.sh) has an execution authority.

Set up the execution authority, if that does not have the authority.

For example, if it has arranged to /usr, move to /usr, and set up the execution right to access.

```
# cd /usr <Return>
# chmod +x ./j2re-1_3_1_02-solspark.sh <Return>
```

- Run the j2re-1_3_1_02-solspark.sh.

```
# ./j2re-1_3_1_02-solspark.sh <Return>
```

Java™ 2 Runtime Environment, Standard Edition Version 1.3.1 software is installed in the directory that has arranged j2re-1_3_1_02-solspark.sh.

- Check whether FJSVsnap is installed.

```
# pkginfo -l FJSVsnap <Return>
```

If the old version is installed, delete a package from a system.

```
# pkgrm FJSVsnap <Return>
```

If an old version is deleted by the above-mentioned operation or it is not installed, install FJSVsnap from CD-ROM by executing the pkgadd (1M) command.

```
# pkgadd -d /cdrom/cdrom0/Package/sun4u <Return>
```

2) Installation time

The time required for installation of RC2000 software is about 1 minute.

C.2.3.2. Installing software

- Log in to the installation machine as a root.
- The SMC goes to OBP mode.

```
# /usr/sbin/shutdown -y -g0 -io <Return>
```

- Boot the system in single-user mode.

```
{0} ok boot -s <Return>
```

When the following message is displayed, enter the password.

```
INIT: SINGLE USER MODE

Type control-d to proceed with normal startup,
(or give root password for system maintenance): password <Return>
```

- Go to the directory where the downloaded package (FJSVrcon2.tar) is placed, and decompress the package.
- Execute the installation command.

```
# cd downloaded_directory <Return>
# tar xvf ./FJSVrcon2.tar <Return>
```

Specify the directory which downloaded FJSVrcon2.tar as <downloaded_directory>.

Files required for installation is decompress in *downloaded_directory*.

```
# ./rconinstall <Return>
```

Installation of RC2000 software is started.

6. Reboot the system.

```
# /usr/sbin/shutdown -y -g0 -i6 <Return>
```

C.2.3.3. Environmental setup after installation

Set up environment with reference to "5.4 Environmental setup after installation". To install RC2000 software on a machine that is not on the same network as the system console, execute the following setup.

1. Specify the host name of SMC .

File

```
/etc/inet/hosts
```

Definition

```
<IP address> <host name>
```

In <IP address>, specify the IP address of the SMC.

In <host name>, specify the host name of the SMC.

Separate <IP address> and <host name> with a tab character or space.

C.2.3.4. Deletion method of software

1. Log in to the machine to delete.
2. Delete the font property file.

```
# /etc/opt/FJSVrcon/bin/rcsetfontprop <Return>
```

3. Delete the environment for starting RC2000 from Web-Based Admin View.

```
# /etc/opt/FJSVrcon/bin/rcextsetup <Return>
```

4. Delete the RC2000 software.

```
# pkgrm FJSVrcon2 <Return>
```

Deletion of RC2000 software starts.

5. Reboot Web-Based Admin View.

```
# /etc/opt/FJSVwvbs/etc/bin/wvCtl restart <Return>
```

If the host name of a SMC is defined at the time of installation, delete it.

C.3 Installation to Windows

C.3.1 Operating Environment

To install RC2000 software, the software and hardware requirements described below must be met.

C.3.1.1. Software Environment

1) Basic Software prerequisites

Before you can use this software, one of the following Basic Software products must have been installed on the system.

No.	Name of Basic Software	Remarks
1	Windows® 98	
2	Windows® Me	
3	Windows® NT Workstation 4.0	
4	Windows® 2000 Professional	
5	Windows® XP	

2) Software requirements

The software products listed in the following table are required to use RC2000 software

No.	Name of software product	Package name	Version and/or level	Remarks
1	Java™ 2 Runtime Environment, Standard Edition		1.3.1	

A web browser and so on. is required in order to start RC2000 from Web-Based Admin View of SMC. For software requirements of Web-Based Admin View, refer to "Web-Based Admin View Operation Guide".

3) Exclusive software

None.

4) Patch requirements

None.

C.3.1.2. Hardware Environment

The following hardware environments are required to use RC2000 software.

1) Main memory

Main memory of 128M bytes or more is required.

2) Hardware requirements

None.

C.3.1.3. Static Disk Resources

The disk space requirements for RC2000 software are shown below.

1) Disk space requirements

About 5 M bytes disk space require for installing RC2000 software.

2) Work area requirements

None.

C.3.1.4. Dynamic Disk Resources

The dynamic disk space requirements for RC2000 software are shown below.

1) Disk space requirements

When you use RC2000 software for the following operations, additional disk space might be required in the directories listed in "C.3.1.3 Static Disk Resources".

No.	Directory	Disk space requirement (Unit: K bytes)	Operation
1	OS installation driver	76.0	The usual operation constituted from one partition. (Note) When one partition increases, 37.5 K bytes of disk space is required.
2	RC2000 software installation driver	0.03	When one host is added. (Note) When a host is added, 0.03 K bytes of disk space is required.

C.3.1.5. Memory Requirements

The following table shows the memory required when you use this RC2000 software for the following operations.

No.	Memory required (unit: Mbyte)	Operation
1	31.2	One console window is started by environmental setup of an default setting value.

No.	Memory required (unit: Mbyte)	Operation
2	5.0	One console window is increased by environmental setup of an default setting value.
3	58.9	One console window is started when scroll buffer size was set as maximum
4	36.8	One console window is increased when scroll buffer size was set as maximum.

C.3.2 Restrictions and notes

C.3.2.1. Restrictions

None.

C.3.2.2. Notes

- If RC2000 for Windows that comes with the Remote Console Connection Unit is installed, RC2000 might not operate normally. Be sure to delete the other version of RC2000 for Windows before installing the RC2000 software. For the deletion of RC2000 for Windows, refer to "REMOTE CONSOLE CONNECTION UNIT USER'S MANUAL".
- Overwrite installation of RC2000 software cannot be performed. If RC2000 software is already installed, install, once deleting. If it is going to carry out overwrite installation of the RC2000 software, RC2000 software already installed will be deleted automatically.

C.3.3 Installation method

The method which installs RC2000 software is explained.

C.3.3.1. Preparations before installation

1) Check of system environment

- Be aware that "RC2000 for Windows" which comes with the Remote Console Connection Unit, is not installed.
- Check if sufficient disk space is available for RC2000 software installation.
For the disk size which RC2000 software uses, refer to " C.3.3 Static disk resources".
- Check whether Java™ 2 Runtime Environment, Standard Edition Version 1.3.1 software is installed. When not installed, the downloaded Java™ 2 Runtime Environment, Standard Edition Version 1.3.1 software (j2re-1_3_1_02-win-i.exe) is double-clicked with a mouse. Installation software starts. Continue the installation by following the instruction messages.

2) Installation time

The time required for installation of RC2000 software is about 30 seconds.

C.3.3.2. Installing software

1. Log on to the machine to install.
 2. Go to the directory where the downloaded package (RC2KVxxLxx.exe) is placed, and double-click with a mouse. (VxxLxx is version information).
- Installation of RC2000 software starts. Continue the installation by following the instruction messages.

C.3.3.3. Environmental setup after installation

1. To the extension(ext) folder of JRE1.2.2 software that be loaded on the Web browser, copy the environment for starting RC2000 from Web-Based Admin View.

Extension folder of JRE software

JRE_installation_folder\lib\ext

Environment for starting RC2000 from Web-Based Admin View

rc2000ext.jar
rc2000.exe

<JRE_installation_folder> is absolute path to the JRE software.

For example, Plug-in is 1.3.1, and when the installation folder was not changed during installation, *<JRE_installation_folder>* is:

<OS installation drive>:\Program Files\JavaSoft\JRE\1.3

2. If installed machine is not the same network as SMC, the following setup is required

Specify the host name of SMC .

File

- For WindowsNT/Windows2000:

OS installation drive:\winnt\system32\drivers\etc\HOSTS

- For WindowsXP:

OS installation drive:\windows\system32\drivers\etc\HOSTS

- For Windows95/Windows98/Windows98SE/WindowsMe:

OS installation drive:\windows\HOSTS

- If system folder is changed at the time of OS installation:

system folder\drivers\etc\HOSTS

Definition

<IP address> <host name>

In *<IP address>*, specify the IP address of the SMC.

In *<host name>*, specify the host name of the SMC.

Separate *<IP address>* and *<host name>* with a tab character or space.

C.3.3.4. Deletion method of software

1. Log on to the machine to delete.
2. Start Explorer, and open the ext folder of JRE software that copied the environment for starting RC2000 from Web-Based Admin View at the time of installation.

JRE_installation_folder\lib\ext

If the installation folder was not changed during JRE1.2.2 installation, *<JRE_installation_folder>* is:

OS installation drive:\Program Files\JavaSoft\JRE\JREversion

3. From the ext folder of JRE software, delete the environment for starting RC2000 from Web-Based Admin View.

Environment for starting RC2000 from Web-Based Admin View

rc2000ext.jar
rc2000.exe

4. If the host name of SMC is defined at the time of installation, delete it.

5. The Control Panel is displayed. Select [Control Panel] from [Settings] menu of [Start].

In WindowsXP, Select [Control Panel] from [Start].

Select [Add/Remove Programs] from the Control Panel. The Add or Remove Programs window is displayed.

Select "RC2000 VxxLxx" from the Add or Remove Programs window. Then click the "Add/Remove..." button.(VxxLxx is version information).

Deletion is started. Delete according to the instruction messages.

Appendix D Method of applying patch to System Console Software

2.1

When this software is used with Solaris(TM) 7 Operating Environment, please apply all the following patches stored in CD-ROM.

111113-02, 112590-01, 107171-10, 107834-03, 107544-03, 106541-21, 106980-19

D.1 Directory of patch

The patch for which this software is necessary is stored in the following directories in CD-ROM.

```
/cdrom/cdrom0/patch/Solaris_7
```

D.2 Method of applying patches

The procedure for applying the patch is as follows.

1. Login as root. And open the “Terminal Console”.
2. The SMC goes to OBP mode.

```
# /usr/sbin/shutdown -g0 -y -i0 <Return>
```

3. Boot the system in single-user mode.

```
{?} ok boot -s <Return>
```

When the following message is displayed, enter the password.

```
INIT: SINGLE USER MODE  
Type Ctrl-d to proceed with normal startup,  
(or give root password for system maintenance):password <Return>
```

4. Enter the root password and when the prompt (#) appears, execute the commands as shown below:

```
# /usr/sbin/mountall -l <Return>  
# /etc/init.d/volmgt start <Return>
```

5. Insert the System Console Software CD-ROM into the SMC.

6. Change the directory.

```
# cd /cdrom/cdrom0/patch/Solaris_7 <Return>
```

7. Execute the patchadd command.

```
# patchadd <Patch-ID> <Return>
```

Note1

Apply the patch in the following order.

- 1) 111113-02
- 2) 112590-01
- 3) 107171-10
- 4) 107834-03
- 5) 107544-03
- 6) 106541-21 (Refer to "D.3 Notes to apply patch" before applying the patch.)
- 7) 106980-19

8. Ejects the System Console Software CD-ROM from the SMC.

```
# cd / <Return>  
# eject cdrom <Return>
```

9. Reboot the system.

```
# /usr/sbin/shutdown -g0 -y -i6 <Return>
```

D.3 Notes to apply patch

There are the following notes before patch 106541-21 applies.

- When applying the following patch, the contents in /etc/inittab file will be replaced. Back up /etc/inittab before applying the following patch and restore the required portions after the application.

[Condition]

If you have added the individual entries into /etc/inittab besides the entries in the original /etc/inittab, and/or you have changed the contents of entries in /etc/inittab.

[Recommended Action]

The contents in /etc/inittab file will be replaced to the following contents.

```
ap::sysinit:/sbin/autopush -f /etc/iu.ap
ap::sysinit:/sbin/soconfig -f /etc/sock2path
fs::sysinit:/sbin/rcS sysinit >/dev/msglog 2<>/dev/msglog </dev/consoleis:3:initdefault:
p3:s1234:powerfail:/usr/sbin/shutdown -y -i5 -g0 >/dev/msglog 2<>/dev/msglog
sS:s:wait:/sbin/rcS >/dev/msglog 2<>/dev/msglog </dev/console
s0:0:wait:/sbin/rc0 >/dev/msglog 2<>/dev/msglog </dev/console
s1:1:respawn:/sbin/rc1 >/dev/msglog 2<>/dev/msglog </dev/console
s2:23:wait:/sbin/rc2 >/dev/msglog 2<>/dev/msglog </dev/console
s3:3:wait:/sbin/rc3 >/dev/msglog 2<>/dev/msglog </dev/console
s5:5:wait:/sbin/rc5 >/dev/msglog 2<>/dev/msglog </dev/console
s6:6:wait:/sbin/rc6 >/dev/msglog 2<>/dev/msglog </dev/console
fw:0:wait:/sbin/uadmin 2 0 >/dev/msglog 2<>/dev/msglog </dev/console
of:5:wait:/sbin/uadmin 2 6 >/dev/msglog 2<>/dev/msglog </dev/console
rb:6:wait:/sbin/uadmin 2 1 >/dev/msglog 2<>/dev/msglog </dev/console
sc:234:respawn:/usr/lib/saf/sac -t 300
co:234:respawn:/usr/lib/saf/ttymon -g -h -p "``uname -n` console login: "
-T sun -d /dev/console -l console -m ldterm,ttcompat
```

Depending on the optional software being used, the peculiar entries for the optional software may automatically be added to /etc/inittab at the time of installing the optional software. (Ex. SynfinityDisk)

Since there are already 17 entries from "ap" to "co" in the original /etc/inittab, if 18 or more entries exist in /etc/inittab, there is a possibility that the /etc/inittab has been corrected, therefore, the evacuation and restoration works will be needed.

Moreover, in the following cases, the evacuation and restoration works will be needed because there is also the possibility that /etc/inittab has been corrected.

- Packages except SUNWcsr are displayed as "Referenced by the following packages" by executing "pkgchk -l -p /etc/inittab", or
 - "ERROR" is displayed by executing "pkgchk -p /etc/inittab".
- (1) Evacuate /etc/inittab file by another name using cp command.
 - (2) Apply the Patch.
 - (3) Referring to the evacuated file, confirm whether the description "/dev/msglog" exists or not.

If the character string "/dev/msglog" does not exist, all the descriptions ">/dev/console 2<>/dev/console" should be corrected to ">/ dev/msglog 2<>/dev/msglog".

```
.... >/dev/console 2<>/dev/console </dev/console
```

-->

```
.... >/dev/msglog 2<>/dev/msglog </dev/console
```

Since the patch 106541-04 or the later revision, it has been changed to use the character string "/dev/msglog" in /etc/inittab, therefore, this correction work, changing the character string of "/dev/console" to "/dev/msglog", isn't needed for PRIMEPOWER/GP7000F usually.

(4) Restore the evacuated file to /etc/inittab by using cp command.

- When applying the following patch, it replaces the /etc/name_to_sysnum file and the /etc/security/audit_class file. Therefore, please back up the file beforehand, and restore the backed up file after applying the patch..

- When modifying the /etc/name_to_sysnum file.

[Condition]

When installing the product which added the system calls to the /etc/name_to_sysnum file.

[Occurrence]

The system call which was added by the product will not work.

- 2) When modifying the /etc/security/audit_class file.

[Occurrence]

The audit class which was defined by user will not be logged.

3. Before you install the following patch onto PRIMEPOWER 200 SMC, you should uninstall the patch 112692-01.

[Phenomenon]

If the patch 112692-01 has been installed, the installation of the [Relevant Patch] fails.

```
# patchadd 106541-21
```

Checking installed patches...

ERROR: This patch is incompatible with patch 112692-01
which has already been applied to the system. To install this patch,
first remove the incompatible patch 112692-01 using patchrm(1M).

Patchadd is terminating.

[Recommended Action]

When applying the Relevant Patch by itself, apply it by executing the following procedures.

- (1) Check whether the patch 112692-01 has been installed. If the patch 112692-01 has been installed, showrev(1M) shows patch information beginning with "Patch: 112692-01...". If not, nothing is displayed.

```
# showrev -p | grep 112692-01
```

Patch: 112692-01 Obsoletes: Requires: 106541-20 Incompatibles:

106541-21

Packages: SUNWcarx, SUNWcar

- (2) Uninstall the patch 112692-01. If the patch 112692-01 has been installed, you should uninstall the patch 112692-01 by using patchrm(1M).

```
# patchrm 112692-01
```



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